

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) **EP 1 081 627 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 10.10.2001 Bulletin 2001/41

(51) Int CI.7: **G06F 19/00**

(43) Date of publication A2: 07.03.2001 Bulletin 2001/10

(21) Application number: 00307194.1

(22) Date of filing: 22.08.2000

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 03.09.1999 US 390016

(71) Applicant: GENERAL ELECTRIC COMPANY Schenectady, NY 12345 (US)

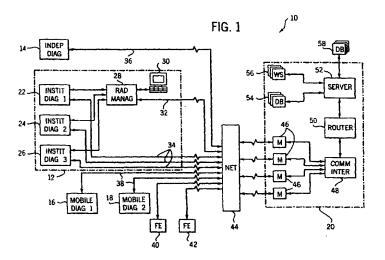
(72) Inventors:

- Koritzinsky, lanne Mae Howards Glendale, Wisconsin 53209 (US)
- Braunstein, Michael James
 Milwaukee, Wisconsin 53202 (US)
- (74) Representative: Goode, lan Roy et al GE LONDON PATENT OPERATION, Essex House, 12/13 Essex Street London WC2R 3AA (GB)

(54) Medical diagnostic system service connectivity method and apparatus

(57) A technique is provided for verifying network connectivity between a medical diagnostic system (12, 14, 16, 18, 22, 24 26) and a remote service facility (20). The remote service facility (20) is contactable at will by the subscribing system to request service, information, technical assistance, and so forth, while the service facility may also contact the subscribing system for acquisition of data, transmission of service messages, protocols, and so forth. In the connectivity verification sequence, a subscribing system (12, 14, 16, 18, 22, 24, 26) is selected by the service facility and a network con-

nection (44) is established. A message is transmitted to the system provoking software at the system to re-establish the network connection from the system side. Two-way connectivity is thereby verified. Mobile systems (16, 18) may be configured to contact the service facility at their own initiation, and exchange data for permitting the service facility to re-contact the mobile system. Failure modes may be identified at various locations in the connectivity network by identification of steps in the connectivity verification process where the process failed. Alerts or other action items may be generated as a result of detected connectivity problems.



Printed by Jouve. 75001 PARIS (FR)



)

EUROPEAN SEARCH REPORT

Application Number EP 00 30 7194

Category	Citation of document with of relevant pas	Indication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
x	24 August 1999 (1998 * column 1, line 34 * column 2, line 1998 * column 3, line 14 * column 4, line 2008 * column 4, line 60	4 - line 52 * 5 - line 42 * 1 - line 43 * 1 - line 50 *	1-10	G06F19/00
,	US 5 818 904 A (DEA 6 October 1999 (199 8 column 2, line 45 * column 4, line 33	N MATTHEW T) 19-12-06\ 19	1-10	
	DE 37 23 115 C (TEL NORMALZEIT GMBH, 60 16 March 1989 (1989	ENORMA TELEFONBAU UND OO FRANKFURT, DE)	1-10	
[]	US 5 077 782 A (BUS 31 December 1991 (1 * column 1, line 60	HUE CARL J ET AL) 991-12-31) - column 2, line 49 *	1-10	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
3	JS 5 796 953 A (ZEY 18 August 1998 (199 * column 2, line 10 * column 3, line 21 * column 4, line 1 * column 5, line 17	8-08-18) - line 44 * - line 61 *	1-10	GO6F HO4M HO4L
	The present search report has b	een drawn up for all claims Date of completion of the search		E-aminer
М	UNICH	8 August 2001	Barb	
CAT X : particul Y : particul docume A : fechnol	EGORY OF CITED DIXCUMENTS larly relevant if taken alone after relevant if combined with another of the same category ogical background fitter disclosure	T: theory or principl E: earlier patent do after the filing dat D: document cited in L: document cited for	e underlying the Incument, but publishe in the application or other reasons	vention Ned on, ar

EPO FORM 1503 03.82 (P04C01)



EUROPEAN SEARCH REPORT

Application Number EP 00 30 7194

		ERED TO BE RELEVANT	D-1	0140017047
Category	of refevant pass	ages	to claim	APPLICATION (Int.Ci.7)
A	of relevant pass SOEHLKE K ET AL: " information system and communication s IEEE PACIFIC RIM CO COMMUNICATIONS, COM PROCESSING (CAT. NO BC, CANADA, 9-10 MA pages 729-732 vol 1991, New York, NY, ISBN: 0-87942-638-1	Interfacing a radiology and a picture archiving ystem" NFERENCE ON PUTERS AND SIGNAL .91CH2954-6), VICTORIA, Y 1991, .2, XP002174370 USA, IEEE, USA and column, line 48 -		CLASSIFICATION OF THE APPLICATION (Int.CI.7) TECHNICAL FIELDS SEARCHED (Int.CI.7)
	The present search report has be Plece of search MUNICH	Date of completion of the search 8 August 2001	Barb	
X : partice Y : partice docum A : technological	EGORY OF CITED DOCUMENTS alarly relevant it taken alone alarly relevant it combined with another that the same category alogical background written disclosure adlate document	T: theory or principle u E: earlier patent docur after the filling date D: document clied in t L: document cited for a 8: member of the sam document	nent, but publish he application other reasons	ed on, or

EPO FORM 1503 03.82 (P04C01)

EP 1 081 627 A3

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 30 7194

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

cite	Patent document ad in search rep		Publication date	Patent family member(s)	Publication date
US 	5943391	Α	24-08-1999	AU 7954498 A WO 9857486 A	30-12-199 17-12-199
us 	5818904	Α	06-10-1998	DE 19744412 A GB 2320395 A,B	16-04-199 17-06-199
DE	3723115	С	16-03-1989	NONE	
us 	5077782	A	31-12-1991	NONE	
JS	5796953	A	18-08-1998	NONE	

FORM PO459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82